We Claim:

1. A method of conveying information from one station (remote) to another separated from

the one station comprising the steps of:

a. collecting the information comprised of n parameters and its location identity at

the one station and encoding it,

b. using a single telephone line at the one station, transmitting the encoded

information via a public telephone exchange to the another station having m number of

telephone lines, where m and n are independent of each other,

c. receiving the transmitted information without any of the telephone calls being

completed,

d. decoding the transmitted information at the another station,

e. comparing the decoded information against a predetermined set of parametric

conditions and identity of a plurality of stations akin to the one station and identifying one

of the stations of the type one that meets desired criteria involving the parametric

conditions, and

f. informing the identified station.

2. A system according to claim 1, where m = 2 and n is 256 or less.

3. A system according to claim 1, where m = 10 and n is 5 million or less.

4. A system according to claim 1, where m is a fixed number, and n is a variable defining

a word comprised of a number of bits, wherein the first two bits of the word stand for the

size of the word.

5. A system according to claim 1, where the step of transmitting comprises transmitting

bits in a specific order and during a specific period of time determined by a timer.

6. A system according to claim 1, wherein the step of informing the one station further

comprises calling the station.

7. A method of monitoring conditions at one (a remote) location, comprising the steps of:

a. detecting the conditions at the remote location;

b. reading the conditions at the remote location and encoding them to generate

corresponding information;

c. using a single telephone line at the one station, transmitting the encoded

information via a public telephone exchange to the another station having m number of

telephone lines, where m and n are independent of each other,

d. receiving the transmitted information without any of the telephone calls being

completed,

e. decoding the transmitted information at the another station,

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f. comparing the decoded information against a predetermined set of parametric

conditions and identity of a plurality of stations akin to the one station and identifying one

of the stations of the type one that meets desired criteria involving the parametric

conditions, and

g. informing the identified station.

8. A system according to claim 7, where m = 2 and n is 256 or less.

9. A system according to claim 7, where m = 10 and n is 5 million or less.

10. A system according to claim 7, where m is a fixed number, and n is a variable defining

a word comprised of a number of bits, wherein the first two bits of the word stand for the

size of the word.

11. A system according to claim 7, where the step of transmitting comprises transmitting

bits in a specific order and during a specific period of time determined by a timer.

12. A system according to claim 7, wherein the step of informing the one station further

comprises calling the station.

13. The method of claim 7, wherein the conditions at the remote location comprise

conditions of a container at the remote location.

14. The method of claim 13, wherein the container comprises a waste disposal container,

the waste disposal container being filled with waste material therein.

15. The method of claim 14, further comprising the step of emptying the waste disposal

container, the emptying step being activated by the identifying step.

16. The method of claim 7, wherein the reading step and the transmitting step occur in a

transmitting module.

17. The method of claim 16, further comprising the step of providing a first power source

to the transmitting module, the first power source having a power level.

18. The method of claim 17, further comprising the step of measuring the power level of

the first power source.

19. The method of claim 18, further comprising the step of conserving the power level of

the first power source.

20. The method of claim 18, wherein the reading step further comprises the step of

reading the power level of the first power source.

21. The method of claim 20, further comprising the step of encoding the information

containing the conditions of the remote location and the power level of the first power

source.

22. The method of claim 7, wherein the receiving step, the selectively processing step, the

calling step and the conveying step all occur in a base module.

23. (Canceled)

24. The method of claim 7, further comprising the step of providing a second power source

to the base module, the second power source comprising a power level.

25. A system for conveying information from one station (remote) to another separated

from the one station comprising:

a. means for collecting the information comprised of n parameters and its location

identity at the one station and encoding it,

b. means for transmitting the encoded information, using a single telephone line at

the one station, via a public telephone exchange to the another station having m number

of telephone lines, where m and n are independent of each other,

c. means for receiving the transmitted information without any of the telephone calls

being completed, and further comprising disconnecting means for disconnecting the call

after predetermined rings but before its completion,

d. means for decoding the transmitted information at the another station,

Donald ONKEN et al CIP of S.N. 09/432,498 August 21, 2003 Page 56 of 63 e. means for comparing the decoded information against a predetermined set of

parametric conditions and identity of a plurality of stations akin to the one station and

means for identifying one of the stations of the type one that meets desired criteria

involving the parametric conditions, and

f. means for informing the identified station.

26. A system according to claim 25, where m = 2 and n = 2 is 256 or less.

27. A system according to claim 25, where m = 10 and n = 5 million or less.

28. A system according to claim 25, where m is a fixed number, and n is a variable

defining a word, and the first two bits of the word stand for the size of the word.

29. A system according to claim 25, where means for transmitting comprises means for

transmitting bits in a specific order and during a specific period determined by a timer.

30. A system according to claim 25, where means for informing the identified station

further comprises means for identifying the station which needs a service such as a pick-up

or a recharge of a power source and means for calling the station.

31. A sensing device for monitoring conditions at one (remote) location having an

originating telephone number, the sensing device comprising:

a. detecting means for detecting the conditions at the remote location;

b. a transmitting module having a first power source, the transmitting module further

comprising reading means for reading the conditions at the remote location, and encoding

means for generating corresponding information,

c. the transmitting module further comprises means for transmitting the encoded

information, using a single telephone line at the one station, via a public telephone

exchange to the another station having m number of telephone lines, where m and n are

independent of each other.

d. a base module comprising means for receiving the transmitted information

without any of the telephone calls being completed, and further comprising disconnecting

means for disconnecting the call after a predetermined number of rings but before its

completion,

e. means for decoding the transmitted information at the another station,

f. means for comparing the decoded information against a pre-programmed list of

parametric conditions and identity of a plurality of stations akin to the one station and

means for identifying one of the stations of the type one that meets desired criteria

involving the parametric conditions, and

g. means for informing the identified station.

32. The sensing device of claim 31, wherein the conditions at the remote location

comprise conditions of a container at the remote location.

33. The sensing device of claim 32, wherein the container comprises a waste disposal

container, the waste disposal container being filled with waste material therein.

34. The sensing device of claim 33, wherein the conditions of the waste disposal container

comprise different levels of waste material in the waste disposal container.

35. The sensing device of claim 34, further comprising emptying means for emptying the

waste disposal container, whereby the emptying means is activated by the identifying

means to empty the waste disposal container.

36. The sensing device of claim 35, wherein the emptying means comprises means for

routing at least one vehicle to the remote location to empty the waste disposal container.

37. The sensing device of claim 31, wherein the first power source comprises a first power

source having a power level.

38. The sensing device of claim 37, further comprising measuring means for measuring

the power level of the first power source, whereby the measuring means conveys

information regarding the power level to the reading means.

39. The sensing device of claim 38, wherein:

a. the reading means reads the conditions at the remote location and the power

level of the first power source; and

b. the transmitting means transmits information regarding the conditions at the

remote location and the power level of the first power source.

40. The sensing device of claim 37, further comprising a second power source for

providing power to the base module.

41. The sensing device of claim 40, wherein the second power source comprises a second

power source having a power level.

42. The sensing device of claim 41, wherein the identifying means monitors the power

levels of the first power source and the second power source.

43. The sensing device of claim 41, further comprising:

a. internal circuitry, the internal circuitry being located within the base module;

b. a regulator, the regulator being connected to the internal circuitry;

c. a full wave bridge circuit, the full wave bridge circuit being connected to the

regulator, the full wave bridge circuit further allowing any polarity of DC input to power the

base module; and

d. a power input jack, the power input jack being connected to the full wave bridge

circuit and to the second power source,

whereby the second power source provides power to the power input jack, the

power inputs jack provides power to the full wave bridge circuit, the full wave bridge circuit

feeds power to the regulator, the regulator further provides power to the rest of the internal

circuitry.

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44. The sensing device of claim 41, further comprising recharging means for recharging

the first power source and the second power source, whereby the recharging means is

activated by the identifying means.

45. The sensing device of claim 41, wherein the list of pre-programmed parametric

conditions further corresponds to the power levels of the first power source and the second

power source.

46. The sensing device of claim 31, wherein the transmitting means comprises an

encoder.

47. The sensing device of claim 31, wherein the receiving means of the base module

comprises a receiver and a decoder, whereby the receiver receives the transmitted

information from the transmitting means and relays the information to the decoder, and the

decoder conveys the transmitted information to the first processing means.

48. The sensing device of claim 31, wherein the first processing means of the base

module comprises a first microprocessor.

49. The sensing device of claim 31, wherein the detecting means comprises at least one

ultrasonic ranging unit, the ultrasonic ranging unit using the first microprocessor's internal

timing functions to detect the conditions at the remote location.

- 50. The sensing device of claim 31, wherein the detecting means comprises remote sensors.
- 51. The sensing device of claim 31, wherein the disconnecting means comprises a modem.
- 52. The sensing device of claim 31, wherein the predetermined number of rings comprises four rings.
- 53. The sensing device of claim 31, wherein the identifying means comprises a second processing means and a CALLER ID unit, the CALLER ID unit being connected to the second processing means.
- 54. The sensing device of claim 53, wherein the second processing means comprises a second microprocessor.
- 55. The sensing device of claim 31, wherein the identifying means comprises a CALLER ID unit.